

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. - 10. (canceled).

11. (currently amended): Antenna (22) formed of a core of magnetic material and a winding (12) of conductive material, characterised in that said core is formed of a first part, defining a first base (24) and an arm (26) projecting from this first base, and a second part defining a second base (30) and assembled to said first part at the free end of said arm, said winding being supported by a plate (28) having in the central region of the winding an opening (6) in which said arm is inserted, said first and second bases extending into first and second substantially parallel planes which are substantially perpendicular to the direction of said ~~arm-arm,~~

wherein said arm (26) is located substantially at a first end of said first base and at a second end of said second base, these first and second bases extending respectively from these first and second ends along opposite general directions.

12. (original): Antenna according to claim 11, characterised in that said plate has a general plane which is substantially parallel to said first and second planes.

13. (canceled).

14. (currently amended): ~~Antenna according to claim 13, characterised in that~~  
Antenna (22) formed of a core of magnetic material and a winding (12) of conductive material, characterised in that said core is formed of a first part, defining a first base (24) and an arm (26) projecting from this first base, and a second part defining a second base (30) and assembled to said first part at the free end of said arm, said winding being supported by a plate (28) having in the central region of the winding an opening (6) in which said arm is inserted, said first and second bases extending into first and second substantially parallel planes which are substantially perpendicular to the direction of said arm,

wherein said arm (26) is located substantially at a first end of said first base and at a second end of said second base, these first and second bases extending respectively from these first and second ends along opposite general directions,

wherein said first and second bases each have the general shape of a V with two branches connected by a connecting part, said arm connecting the two bases at respective connecting parts so that these two bases have, in projection onto said first or second plane, the general shape of an X.

15. (currently amended): Antenna according to claim 14, characterised in that projecting parts ~~(34, 35)~~ (34, 36) in the direction respectively of said second plane and said first plane are provided at the free ends of said branches of the first base and of the second base.

16. (new): Antenna according to claim 14, wherein said plate has a general plane which is substantially parallel to said first and second planes.